BULGARIA/Chemical Technology. Chemical Products and Their Application - Silicates. Glass. Ceramics. Binders.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12644

result of interaction of $Ca(OH)_2$ with $CO_2$. C can be effected by two methods: cellular (CC) and diffusion (DC). In CC the article is placed in a chamber into which is admitted a gas rich in $CO_2$ (usually the gas generated during burning of limestone). The Ca carbonate that is formed binds the particles of the filler and forms the skeleton of the article. Rate of the reaction and nature of the structure of the resulting material depend upon the concentration of $CO_2$, rate and extent of its penetration into the article, etc. In CC, rate of penetration of $CO_2$ to the center of the article can be increased by the use of autovacuum, which is effected by admitting the gas rich in $CO_2$ into a chamber that can be hermetically sealed, by increments at periodical intervals. The resulting reaction between $CO_2$ and $Ca(OH)_2$ is accompanied by a drastic drop in pressure within the

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BULGARIA/Chemical Technology. Chemical Products and Their Application. Ceramics. Glass. Binders. Concrete. H-13

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15311.

Author : Zlatanov Vasil, Dzhabarov Nikola
Inst :
Title : Study of Foam-Carbonates

Orig Pub: Stroitelstvo, 1957, 4, No 3-4, 23-24.

Abstract: For the production of foam-carbonates (FC) it is necessary to carry out the process of carbonation (C) of the molded and predried articles. C can be conducted according to two methods: the chamber and the diffusion method (see RZhKhim, 1957, 12644). As a result of the performed experiments it was ascertained that in C, by either method, use can be made of the flue gases of lime-burning kilns. Flue gases of a Heat and Power Station can also be used for C, which

Card : 1/3

BULGARIA/Chemical Technology. Chemical Products and Their Application. Ceramics. Glass. Binders. Concrete. H-13

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15311

cal properties of FC show that FC constitute a building material of standard quality.

Card : 3/3

ZLATANOV, V.; DZHABAROV, N.

Cellular materials with isotropic fibrous micro-reinforcement. Stroi. mat. 11 no.6:40 Je '65. (MIRA 18:7)

ZLATANOV, V.

ZLATANOV, V. Some problems on cellular carbonate materials. p.30,

Vol. 3, no. 3/4, 1956, STROITELSTVO, SOFIYA, BULGARIA.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, no. 10, Oct. 1956.

ZLATANOV, V.St.; DZHABAROV, N.B.

Improving the production and quality of foamed concrete by using a new type of foamed-concrete mixer. Stroi.mat. 9 no.3:39-40 Mr '63. (MIRA 16:4)

(Lightweight concrete) (Concrete mixers)

ZLATANOV, Zdravko, dots., kandidat na ikonomicheskite nauki

Structure of the management and technical development of industrial enterprises. Trud tseni 5 no.6:17-30 '63.

ZLATANOV, Zl., inzh.

A new floating clamshell dredger for excavating alluvial deposits under deep underground water. Stroitelstvo 11 no.6:29-30 N-D '64.

ZLATANOV, Z.M.; KANAZIRSKI, Kh.M.; MINCHEVA, L.D.; KHRISTOV, L.G.

Elastic scattering of 6.2 Mev. protons by deuterons. Zhur.eksp. i teor.fiz. 46 no.6:1964- 966 Je '64.

1. Ob"yedinennyy institut yadernykh issledovaniy.

(MIRA 17:10)

ACCESSION NR: AP4042553 S/0056/64/046/006/1964/1966

AUTHORS: Zlatanov, Z. M.; Kanazirski, Kh. M.; Mincheva, L. D.; Khristov, L. G.

TITLE: Elastic proton deuteron scattering at 6.2 GeV

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 6, 1964, 1964-1966

TOPIC TAGS: proton scattering, deuteron bombardment, heavy water, nuclear emulsion, elastic scattering, reaction energy

ABSTRACT: With an aim at increasing the statistical accuracy of earlier work (Z. M. Zlatanov, Kh. M. Kanazirski, P. K. Markov, L. G. Khristov, Izv. Fiz. instituta ANEB, v. 11, 101, 1963) the authors used a pellicle stack of 29 type NIKFI-B or emulsion of initial thickness 400μ, three pellicles of which were impregnated with heavy water and the remainder with ordinary water. The stack was irradiated by the internal proton beam of the OIYaI proton synchrotron per-

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ACCESSION NR: AP4042553

pendicular to the emulsion plane. A total of 20.16 $cm^2$ was area-scanned at a magnification of 630 x. Altogether 267 cases of elastic pp scattering were obtained. The differential cross section values are given for the c.m.s. range 2--9.5°. The value obtained for the elastic scattering is $\sigma_{el} = 12.6 \pm 1.4$ mb, and for the effective radius of pd interaction $R = (2.0 \pm 0.1) \times 10^{-13}$ cm. Orig. art. has: 2 formulas, 1 figure, and two tables. "The authors are grateful to the OIYaI management for cooperation and to M. G. Shafranov and P. K. Markov for help with the work."

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 30Dec63 DATE ACQ: ENCL: 01

SUB CODE: NP NR REF SOV: 004 OTHER: 004

Card 2/3

ACCESSION NR: AT4017777 B/2503/63/011/01-/0101/0104

AUTHOR: Zlatanov, Z. M.; Kanazirski, Kh. M.; Markov, P. K.; Khristov, L. G.

TITLE: Elastic scattering of protons by deuterons at small angles at 6.2 GeV

SOURCE: B"lgarska Akademiya na Naukite. Fizicheski institut. Izvestiya na Fizicheskiya institut s ANEB (News of the Institute of Physics and the Atomic Energy Scientific Research Foundation), v. 11, no. 1-2, 1963, 101-104

TOPIC TAGS: scattering, elastic scattering, proton, deuteron, synchrophasotron, photoemulsion

ABSTRACT: The photoemulsion method was used to investigate elastic p-d scattering at 6.2 GeV. A stack, 9 cm in diameter and 2 cm thick, consisting of 29 emulsion layers of the NIKFI-BR type saturated with heavy water, was irradiated by the internal proton beam of the OIYaI [United Nuclear Research Institute] synchrophasotron at Dubna. The incident beam was perpendicular to the surface of the layers, and had an average density $(4.13 \pm 0.08) \cdot 10^5$ protons per sq. cm. The scanning, the measurements and identification of instances of elastic scattering were performed according to the methodology described by V. B. Lyubimov, P. K. Markov, E. N. Tsyganov, Chzhen Pu-in and M. G. Shafranova (ZhETF, 37, 910, 1959). A total of 140

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ACCESSION NR: AT4017777

instances of elastic scattering were found. The differential cross section obtained is shown in Table 1 and Figure 1 of the Enclosure. The cross section of elastic p-d scattering in the angular interval 1.5°--7.5° c.m.s. was found to be $\sigma$ = (8.41 ± 0.73) mb/sterad. The screening coefficient of deuteron was found to be 9%. "The authors cordially thank the Directorate of OIYaI [Obedineniya institut za yadreni izsledvaniya; United Nuclear Research Institute] for the irradiation and chemical treatment of the photoemulsion stack, and M. G. Shafranova for assistance rendered in the work." Orig. art. has: 4 figures, 1 table.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 04Mar64 ENCL: 02

SUB CODE: PH NO REF SOV: 003 OTHER: 001

Card 2/4

KIRILLOVA, L.F.; NIKITIN, V.A.; PANTUYEV, V.S.; SVIRIDOV, V.A.; STRUNOV, L.N.; KHACHATURYAN, M.N.; KHRISTOV, L.G.; SHAFRANOVA, M.G.; KORBEL, Z.; RCB L.; DAMYANOV, S.; ZLATEVA, A.; ZLATANOV, Z.; YORDANOV, V. [Iordanov,V.]; KANAZIRSKI, Kh.; MARKOV, P.; TODOROV, T.; CHERNEV, Kh.; DALKHAZHAV, N.; TUVDENDORZH, D.

Elastic pp and pd-scattering at small angles in the energy range 2 - 10 Bev. IAd. fiz. 1 no.3:533-539 Mr '65. (MIRA 18:5)

1. Ob"yedinennyy institut yadernykh issledovaniy. 2. Vysheye tekhnicheskoye uchilishche, Praga (for Korbel, Rob). 3. Fizicheskiy institut Bolgarskoy Akademii nauk, Sofiya (for Damyanov, Zlateva, Zlatanov, Yordanov, Kanazirski, Markov, Todorov, Chernev). 4. Institut khimii i fiziki, Ulan-Bator, Mongol'skaya Narodnaya Respublika (for Dalkhazhav, Tuvdendorzh).

ZLATANOV, Z.

"Basic funds of our machinery industry", P. 16., (TEKHKA PROMISH-LENOST, Vol. 3, No. 6, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

ZLATANOV, Zdravko, dots.

On certain organizational problems of the management of an industrial enterprise. Trud tseni 4 no.6:13-23 '62.

TSOCHEV, Minko; GEORGIEV, Georgi; ZLATANOV, Zdravko-kandidat na ikonomicheskite nauki

"Specialization and Cooperation of the Cotton Textile Industry" by Minko Tsochev and Georgi Georgiev. Reviewed by Zlatanov Zdravko. Tekstilna prom 10 no.5:40 '61.

ZLATANOV, Z.M.; KANAZIRSKI, Kh.M.; MARKOV, P.K.; KHRISTOV, L.G.

Elastic scattering of protons by deuterons under small angles at 6.2 Bev. Izv fiz atom BAN 11 no.1/2:101-104 '63.

L 24301-66 EWT(m) DIAAP

ACC NR: AP6006795 SOURCE CODE: UR/0386/66/003/001/0015/0021

AUTHOR: Zolin, L. S.; Kirillova, L. F.; Liu, Ch'ing-ch'iang; Nikitin, Y. A.; Pantuyev, V. S.; Sviridov, V. A.; Strunov, L. N.; Khachaturyan, M. N.; Shafranova, M. G.; Korbel, Z.; Rob, L.; Devinski, P.; Zlatanov, Z.; Markov, P.; Khristov, L.; Chernev, Kh.; Dalkhazhav, N.; Tuvdendorzh, D.

ORG: [Zolin, Kirillova, Liu, Nikitin, Pantuyev, Sviridov, Strunov, Khachaturyan, Shafranova] Joint Institute of Nuclear Research, Dubna (Ob"yedinennyy institut yadernykh issledovaniy); [Korbel, Rob] Czechoslovakian Higher Technical School, Prague (Cheshskoye vysshoye tekhnicheskoye uchilishche); [Devinski, Zlatanov, Markov, Khristov, Chernev] Physics Institute, Bulgarian Academy of Sciences, Sofia (Fizicheskiy institut Bolgarskoy akademii nauk); [Dalkhazhav, Tuvdendorzh] Institute of Physics and Chemistry, Mongolian Academy of Sciences, Ulan Bator (Institut fiziki i khimii Mongol'skoy akademii nauk)

TITLE: Real part of the pn scattering amplitude in the energy interval 2--10 Gev

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 1, 1966, 15-21

TOPIC TAGS: proton scattering, neutron scattering, scattering amplitude, differential cross section, deuteron reaction

ABSTRACT: On the basis of experimental data obtained by the authors on elastic pd scattering in the energy interval 1--10 Gev, and information on pp scattering amplitude in this energy range, the authors determined the real part of the scattering

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L 24301-66

ACC NR: AP6006795

amplitude by means of an experiment involving registration of slow recoil deuterons from a film target of deuterated polyethylene 0.5--0.6 μ thick. The investigated range of the squared momentum transfer was $0.003 < |t| < 0.2$ $(Gev/c)^2$. Plots are presented of the differential cross sections vs. the square of the momentum transfer and an empirical formula is given for these plots. The value obtained for the total cross section of elastic pd scattering at 6 Gev is several times smaller than that measured by others. In the small-angle region of pd scattering, constructive interferences were observed between the Coulomb and nuclear scatterings. From the obtained real part of the pd scattering amplitude, and from a comparison of the obtained data with earlier measurements by the authors of the pp scattering amplitude of the same energies (ZhETF v. 50, 76, 1966), the estimated real part of the pn scattering amplitude is +0.2, -0.06, -0.45, and -0.40 for 2, 6, 8, and 10 Gev respectively. The small nonzero real part of the pn scattering amplitude agrees with data obtained at CERN (G. Bellettini et al., Internat. Conf on Elementary Particles, Oxford, 1965). Orig. art. has: 2 figures, 3 formulas, and 2 tables.

SUB CODE: 20/ SUBM DATE: 12Nov65/ ORIG REF: 005/ OTH REF: 005

Card 2/2

ZLATANOVA, Ganka

Defence of a dissertation for the degree of Master of Arts on the balance problems of the specialists. Trud tsemi 5 no.2: 67-72 '63.

ZLATANOVA, Ganka

Scientific conference on the problems of labor productivity.
Trud tseni 4 no.6:66-74 '62.

ZLATANOVA, Ganka

The Plant of Asynchronous Electric Motors reaches the world technical level. Trud tseni 6 no.7:36-41 '64.

Zlatanovic, J.

YUGOSLAVIA/Chemical Technology. Chemical Products and Their Application. J-12
Glass. Ceramics. Building Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27605.

Author : Jovan Zlatanovic, Petko Sapunov.
Inst :
Title : Silex from Crni Vrh (Macedonia).

Orig Pub: Tehnika, 1956, 11, No 10, 1527 - 1529.

Abstract: The varieties of silex were studied and compared with silex from Belgian Congo. As far as the wear due to attrition is concerned, nearly all the varieties of silex are not worse than that from Congo, which makes it possible to use them in mills, as well as abrasives. Blocks of large dimensions and without fissures can be used for making rollers and mill bottoms in view of their great strength.

Card : 1/1 -4-

ZLATANOVIC, J.

Fixation of ceramic properties of clays from the Arandjelovac Basin and from Macedonia. p. 205. (KEMIJA U INDUSTRIJI, Vol. 3, no. 7, July 1954, Zagreb, Yugoslavia)

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, no. 1 Jan. 1955, Uncl.

ZLATANCVIC, J.; SARUNOV, P.

Possibility of producing silica bricks in Macedonia. p. 7. (BEOGRAD, Vol. 10, No. 1, 1955.)

SO: Monthly List of East European Accessions. (EEAL, LC, Vol 4, No. 6, June 1955, Uncl.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065310005-9"

ZLATANOVIC, Jovan, prof. inz. (Skoplje, Ilindenska 50)

An attempt to determine minerals in the rocks by using thermo-differential and thermogravimetric analyses. Tehnika Jug 19 no. 2:Suppl.:Hemindustrija 18 no. 2:341-345 F '64.

1. Faculty of Economics, University of Skopje.

ZLATANOVIC, J.

ZLATANOVIC, J.; BAJIC, N. "Determining ceramic properties of clays from the Arandelovac Basin and from Macedonia."
Kemija U Industriji, Zagreb, Vol 3, No 4, Apr 1954, p. 113

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

ZLATANOVIC, J.

ZLATANOVIC, J. Rice chaff, raw material for the manufacture of refractory materials with high therro-insulating properties. p. 1700.

Vol. 11, No. 11, 1956.
TEHNIKA
TECHNOLOGY
Beograd, Yugoslavia

So: East European Accession, Vol. 6, No. 2, February 1957

ZIATANOVIC, M.

"Care of rifle and artillery armaments."

p. 918 (Vojno-Tehnicki Glasnik) Vol. 5, no. 12, Dec. 1957
Belgrade, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

ZLATAR, Petar, dr.

Dacrycystitis in children. Lijecn. vjesn. 86 no.2:169-172 F'64.

1. Iz Odjela za bolesti ociku Opce bolnice u Splitu.

YUGOSLAVIA

Dr Petar ZLATAR, Eye Department of General Hospital (Ocni odjel Opce bolnice), Split.

"Intraocular Foreign Bodies."

Zagreb, Lijecnicki Vjesnik, Vol 85, No 5, May 63; pp 503-509.

Abstract [ French summary modified]: Comprehensive review of principles of diagnosis and therapy, stressing radiodiagnostic localization and surgical extraction. Statistical data on 71 patients 1952-1963: 34 intrabulbar and 3 retrobulbar. Incidence is increasing. Final results blindness or near-blindness in wounded eye in 28, usable to normal sight in 43. Prevention is stressed to counteract increasing exposure due to industrialization. Two Yugoslav and 21 Western ref's.

1/1

ZLATAR, Petar

Our experience with pseudo-exfoliation of the lens with special reference to cataract and glaucoma. Srpski arh. celok. lek. 92 no.3:313-320 Mr '64.

1. Ocni odjel Opce bolnice u Splitu.

ZLATAR, Petar, dr.

Chemical eye burns in the Split region. Lijecn. vjesn. 87 no.7: 745-752 Jl '65.

1. Iz Odjela za bolesti ociju Opce bolnice u Splitu.

BABIC, Srdan; ZLATAR, Zeljko; URBIHA-FEUERBACH, Mirjana

Grounding of the medium-voltage distribution networks by means of active and inductive resistance. Energija Hrv 13 br.3/4:105-109 '64

1. High-Voltage Laboratory, Faculty of Electrical Engineering, University of Zagreb, Zagreb, Unska ul. b.b.

ZLATAR, Z.

"Slovenian electrotechnical dictionary." Reviewed by Z.Zlatar. Automatika 5 no.2:160 '64.

ZLATAREV, K., d-r

Value of the earth's force of attraction. Nauka i tekh mladezh 15 no. 2:13-15 F '63.

ZLATAREV, K.; SHISHMANOV, CH.

"Struggle against the noise in enterprises."

TEZHA PROMISHLENOST, Sofiia, Bulgaria, Vol. 8, no. 3, Mar. 1959

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept. 59, Unclas

ZLATAREV, Kiril, d-r.

The medical biology and the cosmonautics. Nauka i tekh z mladezh no.10: 5-7 '61.

(Space science)

ZLATAREV, K.; ABADZHIEV, P.

A new source of water supply for Sofia. p. 17
Khidrotekhnika I Melioratsii Vol. 3, No. 1, 1958. Sofiia Bulgaria

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 10,
Oct. 58

ZLATAREV, K.; SHISHMANOV, CH.

Plastic materials and their application in the machinery industry. p. 17
Teknika Vol. 7, No. 4, Apr. 1958. Sofiia, Bulgaria.

Monthly Index of East European Accessions (EPAI) LC, Vol. 7, No. 10,
Oct. 58

ZLATAREV, O.

Comparative studies on the accuracy of the erythrocyte and leukocyte count with the use of Bürker's chamber and celoscope. Suvr. med. 16 no.4:219-223 '65.

1. Institut z spetsiializatsiia i usuvurshenstvuvane na lekarite, Sofiia, Katedra po klinichna laboratoriia (rukovoditel - prof. I. Todorov).

ZLATAREV, P., inzh.

Products of the Plant 12. Mashinostroene 11 no.7/8:37-38 Jl-Ag '62.

ZLATAREV, P., inzh.

Effectiveness of line production at the Plant 12. Mashinostroene 11 no.12:5-8 D '62.

ZLATAREV, P., inzh.; RUSEV, P., inzh., BAKALOV, K., inzh.

The MPRM-5 multiple-spindle precision stretching machine.
Mashinostroene 12 no.6:34-35 Je '63.

ZLATAREV, Petur, inzh.; IVANOV, Angel, inzh.

Possibilities of increasing working parameters of irrigation pumping stations. Khidrotekh i melior 8 no.6:176-178 '63.

ZIATAREV, R.; KISELINOVA

Use of gramicidin in certain otorhinolaryngological diseases.
Khirurgiia, Sofia 12 no.2:163-165 1959.
(OTORHINOLARYNGOLOGICAL DISEASES, ther.
gramicidin (Bul))

ZLATAREV, Tsv.

First Bulgarian universal digital electronic computer.
Radio i televiziia 13 no.3:69-71 '64.

ZLATAREV, Tsv.

The new Soviet televisors. Radio i televiziia 11 no.6:187-188 '62.

ZLATAREV, Tsv.

International short-wave contests. Radio i televiziia 11 no.7:194-195 '62.

ZLATAREV, Tsv.

Results of the inner short-wave contests in honor of the Soviet Army. Radio i televiziia 11 no.8:226 '62.

1. Glaven sekretar na sustezanieto.

ZLATAREV, Tsv.

Meteoric radio communication. Radio i televiziia 10 no.11/12: 353 '61.

NONEV, Khr.; ZLATAREV, Tsv.

DX news. Radio i televiziia 12 no.9:264 '63.

L 36030-66

ACC NR: AP6027350 SOURCE CODE: BU/0011/65/018/012/1099/1102

AUTHOR: Bonchev, T.; Ormandjiev, S.; Zlatareva, A.; Mitrikov, M.; Todorov, P.; Manoushev, B.

ORG: Department of Atomic Physics, Sofia University

TITLE: Study of noniron asymmetric two-lens beta spectrometer with corrective coils

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 12, 1965, 1099-1102

TOPIC TAGS: radiation spectrometer, optic resolution, chromatic aberration, light aberration, optic lens

ABSTRACT: A new two-lens ironless beta spectrometer has been constructed at the Department of Atomic Physics of Sofia University. By means of several correction coils the instrument attained a satisfactory intensity with a good resolving power (1.9%). The article gives a brief description of the device and presents its characteristics. The improved resolving power is attained by 1) an increase in the inlet angle; 2) a decrease in spherical aberration; and 3) an increase in the coefficient of chromatic aberration. Maximum energy is 4.0 MeV. This paper was presented by Academician H. Hristov on 1 September 1965. Orig. art. has: 5 figures and 2 tables. [Orig. art. in Eng.] [JPRS: 36,465]

SUB CODE: 20 / SUBM DATE: 01Sep65 / SOV REF: 003 / OTH REF: 007

Card 1/1 MLP

ZLATARIC, B.

Yugoslavia (430)

Agriculture-Plant and Animal Industry.

Photoperiodism and growth of the white mulberry, the black locust and two types of the Austrian pine. p. 229. SUMARSKI LIST. Vol. 76, no. 7, July 1952.

East European Accessions List. Library of Congress. Vol. 2, no. 3, March 1953. UNCLASSIFIED

SLAVIKIO, B.

"Some modern methods for the propagation of domestic poplars." (P.255) Vol 77, no. 6, June 1953.

SO: East European Accessions List, Vol 3, No 8, Aug 1954

ZLATAREV, Tsvetko

They defended their country. Radio i televiziia 12 no.8: 226-227 '63.

ZLATAROV A. Unspecific agglutination of Brucella with serum from patients with typhus, Annales Medicales, Sofia 1949, 41/8 (873-875)

So: Medical Microbiology and Hygiene, Section IV, Vol 3, No 1-6

ZLATAROV, B.

Using the scintillation counters in the uninterrupted registration of cosmic radiation. Izv fiz atom BAN 10 no.2:57-69 '62.

ZLATAROV, K. Kr.

Computation and application of pulse spectra from a scintillation counter with cylindrical scintillator during its reaction to the hard component of cosmic rays. Godishnik mash elekt 13 no.2:167-176 '63 [publ. '64].

Influence of some parameters of an electronic circuit on the gain stabilization of scintillation counters with the aid of negative feedback. Ibid.:177-186 '63 [publ. '64]

ZLATAROV. Sz. 1951

(Derm. Klin. U. of Szeged)

"Variations of Alkaline Phosphatase Activity in Hairs Under Physiological and Pathological Conditions and After Exposure to Thallium and X-rays."

Acta Physiol. (Budapets), 1951 2/1 suppl.) (35-36)
No abst. in Exc. Med.

ZLATAROV, S.; HOLLO, M.

The effect of thallium and x-rays on the action of alkaline phosphatase. Acta med. hung. 3 no.3:331-340 1952. (CIML 23:4)

1. Of the Department of Dermatology and Venereal Diseases of Szeged University.

ZLATAROV, S.;HOLLO, M.

The effect of x-ray, methylcholanthrene, benzopyrene and thallium on the catalase activity of epidermis and hair. Borgyogy. vener. szemle 6 no. 5:141-144 Oct 1952. (CLML 24:1)

1. Doctors. 2. Dermatological and Venereological Clinic (Director — Prof. Dr. Tamas Havnay), Szeged Medical University.

GARAZSI, M.; ZIATAROV, S.

Various problems of the diagnosis and therapy of gonorrhea. Orv. hetil. 93 no. 37:1056-1058 14 Sept 1952. (CIML 23:5)

1. Doctors. 2. Skin and Venereal Diseases Clinic (Director -- Prof. Dr. Tamas Ravnay), Szeged Medical University.

ZLATAROV, Sztojcso, dr.

Isoniazid treatment of actinomycosis. Borgyogy. venor. szemle 9 no.2: 62-63 Mar 55.

1. A Szegedi Orvostudomanyi Egyetem Bor- es Nemibeteg Klinika kozlemenye (Igazgato Ravnay Tamas dr. egyetemi tanar)
(ACTINOMYCOSIS, therapy
isoniazid)
(NICOTINIC ACID ISOMERS, ther. use
isoniazid in actinomycosis)

ZLATAROV, Sztojcso, dr.

Experimental attempts to produce complement fixation antibodies by plasma treated microbacteria. Borgyogy. vener. szemle 9 no.4:138-141 July 55.

1. A Szegedi Orvostudomanyegyetemi Bor- es Nemibeteg Klinika kozlemenye. Igazgato: Ravnay Tamas dr. egyetemi tanar.

(COMPLEMENT
fixation antibodies, exper. prod. by plasma treated microbacteria)
(ANTIGENS AND ANTIBODIES
antibodies, complement fixation, exper. prod. by plasma treated microbacteria)
(BACTERIA,
plasma treated, exper. prod. of complement fixation antibodies)

SIPOS, Karoly, dr.; ZLATAROV, Sztojcso, dr.

Experiments on sensitization and on complement fixation, using water-soluble bacterial antigens. Borgyogy. vener. szemle 9 no. 6:194-200 Nov 55.

1. A Szegedi Orvostudomanyegyetemi Bor- es Ne mibeteg kozlemenye (Igazgato: Ravnay, Tamas, dr. egyetemi tanar).
(ANTIGENS AND ANTIBODIES
water soluble bact. antigens, exper. studies on sensitization & complement fixation.)

HOLLO, Maria, dr.; ZLATAROV, Sztojcso, dr.

X-ray and thallium effects on the calcium phosphate layer of the surface of hair roots; calcium phosphate layers of the skin. Borgyogy. vener. szemle 9 no.6:218-220 Nov 55.

1. Szegedi Orvostudomanyegyetemi Bor- es Nemibeteg Klinika kozlemenye. Igazgato: Ravnay, Tamas, dr. egyetemi tanar.

(HAIR, effect of radiations on
x-ray & thallium, on calcium phosphate layers in hair roots)
(SKIN, effect of radiations on
x-ray & thallium, on calcium phosphate layers)
(PHOSPHATES
calcium phosphate, layers in hair roots & skin, eff. of x-rays & radioactive thallium)
(THALLIUM, radioactive
eff., on calcium phosphate in skin & hair roots)
(ROENTGEN RAYS, injurious effects
on calcium phosphate in skin & hair roots)

EXCERPTA MEDICA Sec.13 Vol.11/2 Dermatology,etc.Feb57

ZLATAROV, S.

463. HOLLÓ Z. M. and ZLATAROV S. Dept. of Dermatol., Univ. Med. Sch., Szeged, Hungary. *The effect of carcinogenic agents on the phosphorus content of hair bulbs and epidermis. The effect of X-rays on the phosphorus content of the hair bulbs J. INVEST. DERM. 1956, 26/5 (379-381) Tables 1

The results indicate that hair bulbs epilated by X-rays lose most of the phosphorus they contained. This probably means that the phosphorus compounds of the hair bulbs were also completely destroyed. Considering the many various phosphorus compounds contained in the cells (acid-soluble phosphorus compounds, nucleic acids, phospholipids and phosphoproteins) and the significance of the phosphorus metabolism in the intracellular energy-production, this change is of large magnitude and may offer an explanation for the perishing of the hair bulbs.

Z. HOLLO MARIA; ZIATAROV SZTOJCSO

Behavior of disulfide bonds in keratinized hair and in healthy and roentgen ray-epilated hair roots. Kiserletes Orvostudomany 11 no.1:51-53 Feb 59.

1. Szegedi Orvostudomanyegyetem Bor- es Nemibeteg Klinikaja.

(HAIR, eff. of keratinisation & x-ray epilation on behavior of disulfide bonds of cystine in hair (Hun))
(KERATIN
eff. of keratinisation & x-ray epilation on behavior of disulfide bonds of component cystine in hair (Hun))
(CYSTINE
disulfide bonds in hair, eff. of keratinisation & x-ray epilation of hair on behavior (Hun))
(ROENTGEN RAYS, eff.
behavior of disulfide bonds of cystine components of x-ray epilated hair (Hun))

Z.HOLLO MARIA; ZIATAROV SZTOJCSO

Behavior of disulfide bonds in the internal organs of mice upon the action of alkaline hydrolysis; use of Bennett's sulfhydryl reagent dissolved in toluene and aniline. Kiserletes Orvostudomany 11 no.1:54-56 Feb 59.

1. Szegedi Orvostudomanyegyetem Bor- es Nemibeteg Klinikaja.
(CYSTINE, determ.
disulfide bonds, alkaline hydrolysis followed by reaction with Bennett's sulfhydryl reagent in aniline-toluene medium (Hun))
(SULFIDES, determ.
same)
(SULFHYDRYL COMPOUNDS, determ.
with Bennett's sulfhydryl reagent in aniline-toluene medium following alkaline hydrolysis of disulfide bonds (Hun))

ZHOLLO MARIA; ZIATAROV SZTOJCSO

Effects of methylcholanthrene and benzopyrene painting on the disulfide bonds of the epidermis in mouse. Kiserletes Orvostudomany 11 no.1:57-59 Feb 59.

1. Szegedi Orvostudomanyegyetem Bor- es Nemibeteg Klinikaja.
(CYSTINE, metab.
epidermis of mouse skin, eff. of benzopyrene & methylcholanthrene painting on behavior of disulfide bonds (Hun))
(SKIN, eff. of drugs on
benzopyrene & methylcholanthrene painting on behavior of disulfide bonds in mouse epidermis (Hun))
(METHYLCHOLANTHRENE, eff.
painting of mouse skin on behavior of disulfide bonds in epidermis (Hun))
(BENZOPYRENES, eff.
same)

Z. HOLLO, Maria; ZLATAROV, Sztojcso

Prevention of death by means of selenium salts administered before roentgen-irradiation. Borgyogy. vener. szemle 36 no.5: 204-207 S '60.

1. A Szegedi Orvostudomanyi Egyetemi Bor- es Nemibetegklinika (Igazgato: Ravnay Tamas dr. egyetemi tanar) kozlemenye.
(SELENIUM pharmacol)
(RADIATION PROTECTION exper)

ZLATAROV, V.

Universal stabilized rectifier, the free-point tester.
Radio i televiziia 12 no. 12: 374 '63.

ZLATAROV, V.Kr.

Scintillation counter used as detector of cosmic rays. Prib. i tekh. eksp. 9 no.4:97-98 Jl-Ag '64. (MIRA 17:12)

ZIATAROV, V. Kr.; GRADINAROV, N.P.

Push-pull power amplifier with ultralinear feedback.
Godishnik mash elekt 12 no. 2:95-105 '62 [publ. '63].

ZLATAROV, V., inzh.

Determining the stabilization range of an electronic stabilizer with negative feedback. Radio i televiziia 13 no.5:149 '64

ZLATAROV, V.

Computing the spectra of free paths of particles in the rigid component of cosmic rays in a cylindrical scintillator. Doklady BAN 17 no.1:19-22 '64

1. Predstavleno akad. Kh.Khristovym, chlen Redaktsionnoy kollegii, "Doklady Bolgarskoy Akademii nauk".

L 18456-63 EWT(1)/BDS/EEC-2/ES(v) AFFTC/AFMDC/APGC/AFD/ESD-3
Pe-4/P1-4/Po-4/Pq-4 GW B/2503/62/010/002/0057/0069
ACCESSION NR: AT3002412

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AUTHOR: Zlatarov, V.

TITLE: Use of scintillation counters for the uninterrupted registration of cosmic radiation

SOURCE: B"lgarska akademiya na naukite. Fizicheski institut. Izvestiya na Fizicheskiya institut s ANEB, v. 10, no. 2, 1962, 57-69

TOPIC TAGS: scintillation counter, scintillation, scintillator, cosmic ray, counter

ABSTRACT: Examined is the possibility in principle of constructing a scintillation counter for uninterrupted registration of cosmic rays, as well as the maximum accuracy attainable with it. Such data are lacking at present. The connection between counting velocity, registered by the scintillation counter -- N [min$^{-1}$] -- and the number of particles of cosmic radiation passing through the scintillators per unit of time -- $N_{c.r}$ [min$^{-1}$] -- can be expressed as follows:

$$N = N_{c.r}\ K_p + N_{rand},$$

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where $N_{rand}$ is the number of random coincidences (when registration is conducted by means of a telescope of two scintillation counters included in a coincidence scheme), and $K_p$ is the effectiveness of the scintillation counter. Intensiveness of cosmic radiation is judged by reference to the velocity of counting N. To increase statistical accuracy, area of the scintillator must be large; to reduce error in measurement, $K_p$ must be constant and $N_{rand}$ small. Effectiveness $K_p$ however may vary by reason of apparatus. The spectrum of impulses of a single scintillation counter (see Fig. 1 of Enclosure 1) is analyzed and it is noted that in this case error in measurement of cosmic radiation may go as high as several percentage points, "which is quite unsatisfactory." A detailed examination is made of the operation of a specially constructed apparatus, using two scintillation counters working on the coincidence principle. See block diagram in Fig. 2 of Enclosure 2. In this case, with effective area S $\sim$ 200 sq. cm., and with stabilization of the photomultipliers by means of negative feedback, greatest accuracy of the apparatus is of the order $\sim$ 0.2%. Further reduction of error (to several hundredths of a percent) may be reached by using

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greater effective scintillator area (S 0.5 sq. m.). Likewise examined is a method of determining the intensity of cosmic radiation with error of the order of several tenths of a percent, by means of measuring the counting velocity on two discrimination levels. "In conclusion I wish to express my heartiest gratitude to Doctor of Physico-mathematical Sciences N. L. Grigorov for proposing the topic of this work and for the valuable consultations and discussions with him during its execution." Orig. art. has: 12 equations, 9 figures and 2 tables.

ASSOCIATION: none

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| SUBMITTED: 00 | DATE ACQ: 04 Jun 63 | ENCL: 02 |
| SUB CODE: NS, PH | NO REF SOV: 009 | OTHER: 003 |

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ZLATAROV, V. K. Cand Phys-Math Sci -- "~~Apparatus~~ Device for continuous registration of cosmic rays ~~utilizing~~ by means of scintillation counters." Mos, 1960 (Mos Order of Lenin and Order of Labor Red Banner State Univ im M. V. Lomonosov. Sci Res Inst of Nuclear Phys). (KL, 1-61, 179)

ZLATAROV, Z.

ZLATAROV, Z. Let us carry out the concluded contracts precisely. p.10.

Vol. 11, no. 8, Aug. 1956
KOOPERATIVNO ZEMEDELIE
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Periodical: OTCHETNOST I KONTROL NA SELSKOTO STOPANSTVO. Vol. 3, No. 6, 1958.

ZLATAROV, Z. Private property of the cooperators. p. 244.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2
February 1959, Unclass.

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AGRICULTURE

Periodical: OTCHETNOST I KONTROL NA SELSKOTO STOPANSTVO. Vol. 3, No. 9, 1958.

ZLATAROV, Z. Transferring the rights of property and expropriating the land brought into the cooperative farms. p. 379.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2 February 1959, unclass.

ZIATAROV, Z.

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Periodical KOOPERATIVNO ZEMEDELIE. No. 10, Oct. 1958.

ZIATAROV, Z. State management of cooperative farms. p. 13.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

LAMBREV, Zh., ZLATAREV, Zh.

Some observation on mice exposed to lethal doses of x-rays [with summary in English]. Med.rad. 3 no.3:30-34 My-Je '58 (MIRA 11:7)

1. Iz kafedry biologii (zav. - prof. doktor Zh.Lambrev) i kafedry rentgenologii s radiologiyey (zav. - dots. K. Vlakhov) pri Vyasshem meditsinskom institute imeni I.P. Pavlova, Plovdiv.
(ROENTGEN RAYS, inj.eff.
lethal irradiation, eff. of sex, weight & biogenetic stimulators in mice (Rus))

IAMBREV, Zh.; ZIATAROV, Zh.

Mortality of white mice of various ages following massive-dose x-irradiation. Suvrem. med., Sofia 9 no.8:40-45 1958.

1. Iz Katedrata po biologiia pri VMI I. P. Pavlov -- Plovdiv (Zav. katedrata: prof. Zh. Iambrev) i Katedrata po rentgenologiia i radiologiia pri VMI I. Pavlov--Plovdiv (Zav. katedrata: dots. K. Vlakhov).

(ROENTGEN RAYS, Effects,
mortal. in white mice, age factor (Rus))
(AGING, effects,
on x-ray mortal. in white mice (Rus))

ZLATARSKI, Vassil [Zlatarski, Vasil]

Styloccenia taurinensis (Michelin), a madrepore of the Mediterranean Tertiary. Godishnik biol 56 no.2:61-72 '61-'62 [Publ. '63].

Styloccenia delicata Oppenheim, a macrepore of the Tertiary of France. Ibid.:73-77

ZLATARSKI, Vassil [Zlatarski, Vasil]

Stylocoenia taurensis (Michelin), madrepore of the Mediterranean Tertiary. Godisnik biol 56 61-72 '61/'62.

ZLATCHLAVEK, F.

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PHASE I BOOK EXPLOITATION SOV/5799

Unksov, Ye.P., Doctor of Technical Sciences, Professor, Ed.

Sovremennoye sostoyaniye kuznechno-shtampovochnogo proizvodstva (Present State of the Pressworking of Metals) [Moscow] Mashgiz, 1961. 434 p. 5000 copies printed.

Ed. of Publishing House: A.I. Sirotin; Tech. Ed.: E.I. Model'; Managing Ed. for Literature on the Hot Working of Metals: S.Ya. Golovin, Engineer.

Title: Kuznechno-shtampovochnoye proizvodstvo v SSSR (The Pressworking of Metals in the USSR) by: A.V. Altykis, D.I. Bereshkovskiy, V.F. Volkovitskiy, I.I. Girsh (deceased), L.D. Gol'man, S.P. Granovskiy, N.S. Dobrinskiy, A.I. Zimin, S. L. Zlotnikov, A.I. Kegalovskiy, P.V. Lobachev, V.N. Martynov, Ye.N. Moshnin, G.A. Navrotskiy, Ya.M. Okhrimenko, G.N. Rovinskiy, Ye.A. Stoshn, Yu.L. Rozhdestvenskiy, N.V. Tikhomirov, Ye.P. Unksov, V.F. Shcheglov, and L.A. Shofman; Eds: Ye.P. Unksov, Doctor of Technical Sciences, Professor, and B.V. Rozanov.

Title: Kuznechno-shtampovochnoye proizvodstvo v ChSSR (The Pressworking of Metals in the Czechoslovak SR) by: S. Burda, F. Hrazdil, F. Drastik, F. Zlatohlávek

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Present State of the (Cont.) SOV/5799

Z. Kejval, V. Kraus, F. Kupka, F. Nejdr, K. Marvan, J. Novák, J. Odehnal, K. Paul, B. Sommer, M. Honz, J. Částka, V. Šindelář, and J. Sole; Eds.: A. Nejepsa and M. Vlk.

PURPOSE: This book is intended for engineers and scientific personnel concerned with the pressworking of metals.

COVERAGE: Published jointly by Mashgiz and SNTL, the book discusses the present state of the pressworking of metals in the USSR and the Czechoslovak Socialist Republic. Chapters were written by both Soviet and Czechoslovak writers. No personalities are mentioned. There are 129 references: 98 Soviet, 16 English, 8 German, 5 Czech, and 2 French.

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PRESSWORKING IN THE USSR



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Present State of the (Cont.)



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Present State of the (Cont.) SOV/5729



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ZLATE, Gh., ing.

Student scientific session in Brasov. Ind lemnului 15 no.5: 190-191 My '64

SCHIOPU, U.; CRETU, T.; ZLATE, M.

On some psychological conditions of accidents in the mining industry. Rev psihologie 11 no.1:105-117 '65.

1. Chair of Psychology of the University of Bucharest. Submitted July 30, 1964.